

Project Finance Modeling Fundamentals

CPD 24 units | 24 PL Credits

Online Pework + 3 Days Classroom or 6 Virtual Sessions + 6 Assignment Sessions



Finance Professionals Network
BEYOND BORDERS

dbrownconsulting focuses on helping organizations and individuals achieve more with their data. We partner with CFA Institute Nigeria and the Finance Professionals Network to deliver world-class learning and professional development solutions to its members and candidates in Nigeria. We are also an accredited training provider of the Financial Modeling Institute based in Canada, Microsoft Gold Partners and a member of CPD UK.

Overview

This course will teach participants the fundamentals of project finance modeling following best practices. It will breakdown the important concepts into modules allowing you to implement them in your industry. We use the case study method which allows you see varied perspectives and to gain deeper knowledge of the concepts.

You will have access to our videos covering core mechanics of project finance and you will be expected to think critically as you work through case studies individually and in your assigned groups.

This course requires an above average understanding of Excel and Finance and working knowledge of the mechanics of basic Corporate models.

Overview & Design Fundamentals of Project Finance Modeling

- Understanding the various types of financial models
- Relevance of Project Finance Modeling
- Types of Project Financing Model
- Life Cycle of a Project
- Phases of Project Financing
- Model components and Assumptions
- The Basic Principles
- Following the Design flow for project
- Building a flexible Input Structure
- Different Structure considerations and when to sue them
- Core Drivers
- Basic Timelines and maintaining flexibility

Structuring & Handling timing

- Designing Approaches
- The mechanics of Start and End dates for financial close, construction period, and operations
- Timing and scenarios
- Project peculiarities and how they affect timing
- Using timing as a switch and sensitivity trigger
- Advanced Excel concepts for managing timing
- Timing and dealing with Circularity

Project Funding and Costs Construction

- Sources and uses of funding
- Funding scheme with term debt and residual equity funding
- Understanding the cover factors (CFADS, DSCR, LLCR, PLCR, ADSCR, MRA)
- Building intelligent cash sweep calculations
- Adding a debt schedule to project or corporate finance model
- Issues is Loan Calculations: (currency adjustments, drawings, cash sweeps & waterfalls, repayment schedule, etc)
- Capital expenditure and depreciation breakdown
- Incorporating ongoing operational cap ex

Modeling DSCR & MRA

- How to structure the Debt Service Reserve Account
- The issues with Circularity and how to deal with it
- Accounting for debt and cash sweeps

- Mechanics of modeling the Maintenance Reserve Account under changing time periods and expenditure profiles
- General best practices and cases

Model Optimization

- Understanding the effects of iteration and damping factors on your model
- Optimising revenue with Constraints on LLCR, ADSCR, IRR
- Optimising the Debt-to-Equity ratio
- Fundamentals of Debt Sculpting mechanics
- Review of methodologies for sculpting debt: Solver, Goal seek

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The modelling of revenue and cost structure as well as the warm exercise helped me to improve my activeness in class. The class was really engaging. The explanation on schedules in financial modelling was an eye-opener. I have not come across them before. Thank you for the session always, Victor. I look forward to the next session.

*Oluwakunmifayo S. Falola
- IHS Towers*

To learn more and register, contact us by phone, email or visit our website

Sales +234 812 333 4364, +234 904 254 5520
+234 700TRAINING (+23470087246464)
training@dbrownconsulting.net
engage@dbrownconsulting.net
www.dbrownconsulting.net
www.OfficeTrainingHub.com

Training Center:
70A Adeyemo Akapo Street, Omole Phase 1, Agidingbi, Ikeja, Lagos, Nigeria

...learning anywhere, everywhere.

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Delivery method:

This course is delivered as a blended course. It will include self-directed content, mostly video content via our LMS and Live instructor led sessions delivered in-person or virtually.

Online Pre-work:

The online session (prework) will include video-based content covering required knowledge for building typical corporate model. It will also include Excel and Accounting skills to better prepare you for the course. Content will include:

- Basic Excel skills required for Modeling
- Excel building blocks and tricks needed to tackle more complex modeling concepts
- Overview of the mechanics of a typical Corporate Model
- Overview of the structure of a Project finance model.

Structure of each Live Sessions

All Live sessions are experiential and use the case method. Each session focuses on a specific module from the core content of the course.

Our facilitators discuss the concepts around each module and their execution in a typical project finance deal. This is supplemented by video content covering the modeling mechanics of the module.

Participants then discuss the application of the concepts to their specific industry, sharing experiences where applicable.

Each session includes Live Instruction, Self-Study and an Assignment and will typically be structured as follows:

Live Instruction:

- Review a template answer to the previous sessions case study via breakout sessions
- Detailed debrief and discussion of learning points
- Deeper dive into advanced Concepts around the topic

- Introduction to a new module highlighting the core concepts, peculiar issues and examples of a new module
- Industry specific discussion of the concepts and how this module affects project outcomes
- Debrief discussion and learning points
- Highlights of the mechanics of this module in a typical project finance model
- Highlights of the new case study which will need to be completed as an assignment before the next session.

Assignments

- Support material: Videos of the mechanics, discussion forum and useful links are provided on our LMS to assist participants with their case study assignment
- Participants are required to upload their answer to the LMS.

Course Administration

The entire course is gamified. Each participant is a member of a group and each gain or lose points for their group by:

- Participation in class (answering questions, chat, completing speed drills etc)
- Attendance and punctuality
- Meeting deadlines (Assignment & activities)
- Performance in Quizzes
- Level of completion of prework.



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This is a fantastic course for all finance professionals, well delivered from scratch and quite detailed. The facilitator was great....thanks Victor. Overall, it was a very good experience and I look forward to start building my models.

– Adetola Ogunfuyi, StanbicBTC

To learn more and register, contact us by phone, email or visit our website

Sales +234 812 333 4364, +234 904 254 5520
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